Institut für Meereskunde
an der Universität Kiel

Date: MARCH,12 2003

Cruise Report

Compiled by*: Norbert CORTES*

F.S. Poseidon ***Cruise No.: P288***

Dates of Cruise: *5th MAY 2002*
17th MAY 2002

Areas of Research: *Physical oceanography*

Port Calls: *Departure: LISBON*
Arrival :St JOHN'S (NEWFOUNDLAND)
Institute: *IFREMER (Institut Français pour la Recherche et l'Exploitation de la Mer)*

Chief Scientist: *Norbert CORTES*

Number of Scientists: *2*

Projects: *Implementation of ARGO floats within EU-funded project GYROSCOPE*

1. Scientific crew

Name	***Function***	***Institute***
Norbert CORTES	*Electronics Engineer*	*IFREMER*
Matthieu MINGAM	*Student Engineer*	*ISEB(*)*
Total	***2***	

(*) Institut Superieur d'Electronique de Brest

Chief scientist:

Norbert CORTES
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2. Research programme

Implementation of ARGO floats within EU-funded project GYROSCOPE using the shp's transit from Lisbon, Portugal to St. Johns, Canada. All floats to be deployed outside any coastal state's Exclusive Economic Zone (EEZ)

3. Narrative of cruise with technical details

The R/V POSEIDON departed from LISBON (Portugal) on May 5th 2002 and arrived in St JOHN'S (Newfoundland) on May 17th 2002.

The objective of the cruise was to deploy 16 autonomous profiling floats:7 PROVOR and 5 APEX belonging to IFREMER and 4 APEX belonging to BEDFORD INSTITUTE OF OCEANOGRAPHY(CANADA).

Prior to deployment each has been thoroughly checked. One of the APEX failed to work properly and could not be deployed: after running a test ,it was impossible to inflate the air bladder.

With the valuable help of the crew the 15 remaining floats have been successfully launched.

These instruments have been programmed to profile every 10 days to achieve a 1500 dbar parking depth and a 2000dbar profiling depth.

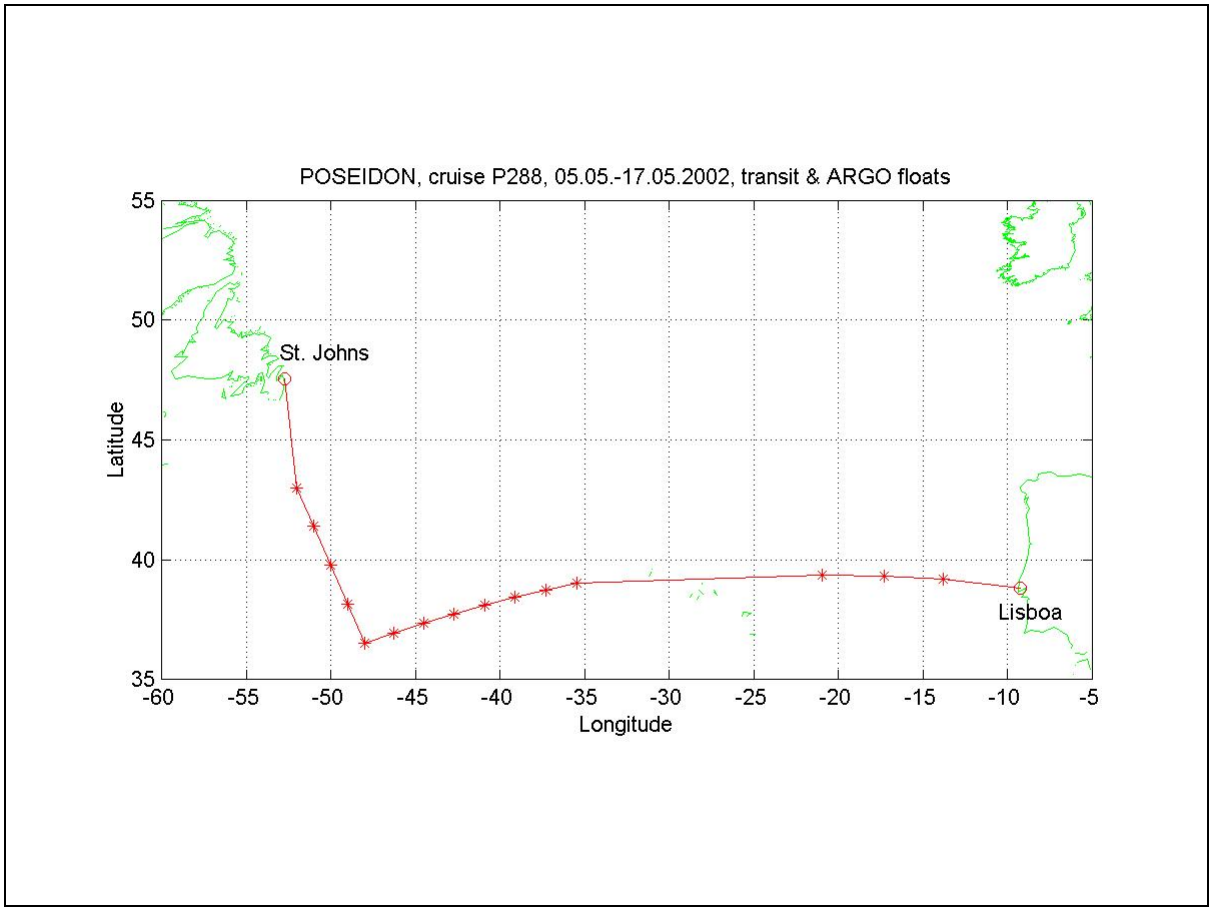

***Fig. 3.1**: R/V POSEIDON cruise P288:cruise track; stars indicate launch positions of ARGO floats.*

4. Scientific report and first results

See: "SECOND ANNUAL INTERIM REPORT" (February 2003)

5. Scientific equipment: instruments and moorings

5.1 ARGO floats

WMO I.D	*Date 2002*	*Launch position*	*Sounding*	*Instruments*	*Remarks*
6900163	*05/06*	*39°10,5N 13°48,1W*	*3600*	*PV 021*	
6900166	*05/07*	*39°19,7N 17°18,5W*	*4900*	*APEX 445*	
6900167	*05/07*	*39°20,36N 20°59,59W*	*4690*	*PV 022*	
6900168	*05/10*	*39°00,00 N 35°26,98W*	*3730*	*PV 023*	
4900214	*05/11*	*38°43,59N 37°17,84W*	*4620*	*APEX 446*	
4900215	*05/11*	*38°25,17N 39°07 ,24W*	*4620*	*PV 024*	
4900216	*05/12*	*38°05,4N 40°55,4W*	*4550*	*APEX 448*	
4900217	*05/12*	*37°43,9N 42°43,4W*	*4600*	*PV 025*	
4900218	*05/12*	*37°21,20N 44°30,32 W*	*4700*	*APEX 449*	
4900219	*05/13*	*36°56,41 N 46°15,71 W*	*?*	*PV 026*	
4900233	*05/13*	*36°29,99 N 47°59,94 W*	*5100*	*APEX 505 BIO (*)*	
4900220	*05/14*	*38°08,40 N 49°00,07 W*	*5300*	*PV 028*	
4900221	*05/14*	*39°46,41 N 50°00,00 W*	*5351*	*APEX 450*	
4900235	*05/15*	*41°23,98 N 51°00,03 W*	*4020*	*APEX 507 BIO (*)*	
4900236	*05/15*	*43°00,06 N 52°00,03 W*	*2500*	*APEX 508 BIO(*)*	

(*) BIO:BEDFORD INSTITUTE OF OCEANOGRAPHY

6. Acknowledgements

I want to thank Captain W.KLAASSEN and the crew of the R/V POSEIDON

7. Appendices

A. Station list

8. References

1: GYROSCOPE PROPOSAL N° EVK2-2000-22044 (JUNE 2000)
2: GYROSCOPE SECOND ANNUAL INTERIM REPORT (FEBRUARY 2003)

Appendix A:

POSEIDON P288, 05.05.-17.05.2002
Lissabon - St. Johns, NF, Kanada
PI: Yves Desaubies, GYROSCOPE, Pta. Delgada - St. Johns
Stand 12.03.2003

Transit & Aussetzen von ARGO Floats

MM: Monat
DD: Tag
WD/m: Lottiefe/m, basierend auf 1500 m/s Schallgeschwindigkeit
sym: Zeichensmbol
PV: Provor Float

WMO ID	MM	DD	Latitude	Longitude	WD/m	sym	Instruments
-9	05	05	38 48.00	-009 -16.00	-9	2	Lisboa
6900163	05	06	39 10.5	-013 -48.1	3600	1	PV 021
6900166	05	07	39 19.7	-017 -18.5	4900	1	APEX 445
6900167	05	07	39 20.36	-020 -59.59	4690	1	PV 022
6900168	05	10	39 00.00	-035 -26.98	3730	1	PV 023
4900214	05	11	38 43.59	-037 -17.84	4620	1	APEX 446
4900215	05	11	38 25.17	-039 -07.24	4620	1	PV 024
4900216	05	12	38 05.4	-040 -55.4	4550	1	APEX 448
4900217	05	12	37 43.9	-042 -43.4	4600	1	PV 025
4900218	05	12	37 21.20	-044 -30.32	4700	1	APEX 449
4900219	05	13	36 56.41	-046 -15.71	-9	1	PV 026
4900233	05	13	36 29.99	-047 -59.94	5100	1	APEX 505 BIO (*)
4900220	05	14	38 08.40	-049 -00.07	5300	1	PV 028
4900221	05	14	39 46.41	-050 -00.00	5351	1	APEX 450
4900235	05	15	41 23.98	-051 -00.03	4020	1	APEX 507 BIO (*)
4900236	05	15	43 00.06	-052 -00.03	2500	1	APEX 508 BIO
-9	05	17	47 34.00	-052 -43.00	-9	2	St. Johns

(*) BIO:BEDFORD INSTITUTE OF OCEANOGRAPH